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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO		
09/683,605 01/24/2002		Steven Yellin Schondorf	201-0378 FAM	9340		
28549	7590 12/29/2003		EXAMINER			
KEVIN G. MIERZWA			HERNANDEZ, OLGA			
ARTZ & ARTZ, P.C. 28333 TELEGRAPH ROAD, SUITE 250			ART UNIT	PAPER NUMBER		
SOUTHFIELD, MI 48034			3661	3661		

DATE MAILED: 12/29/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

,		Ap	Application No.		Applicant(s)				
Office Action Summary		09	9/683,605	scно	SCHONDORF ET AL.				
		Ex	aminer	Art Un	nit	,			
			ga Hernandez	3661					
Period fo	The MAILING DATE of this communic or Reply	cation appears	on the cover sheet	with the correspo	ondence addre	ess			
THE - Exte after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FOMAILING DATE OF THIS COMMUNION on sions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commuperiod for reply specified above is less than thirty (30) period for reply is specified above, the maximum state to reply within the set or extended period for reply weeply received by the Office later than three months afted patent term adjustment. See 37 CFR 1.704(b).	CATION. f 37 CFR 1.136(a). inication. days, a reply withi utory period will ap vill, by statute, caus	In no event, however, may n the statutory minimum of ply and will expire SIX (6) N e the application to become	v a reply be timely filed thirty (30) days will be co IONTHS from the mailing ABANDONED (35 U.S	onsidered timely. g date of this comm S.C. § 133).	nunication.			
1)⊠	Responsive to communication(s) filed	l on <u>20 Nover</u>	<u>mber 2003</u> .						
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This actio	action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
5)⊠ 6)⊠ 7)□	4) ☐ Claim(s) 4-9,12-15,22,23 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) 9 and 22 is/are allowed. 6) ☐ Claim(s) 4-8,12-15 and 23 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.								
	on Papers		,						
10)	The specification is objected to by the The drawing(s) filed on is/are: Applicant may not request that any object Replacement drawing sheet(s) including to the oath or declaration is objected to	a) accepte ion to the draw the correction is	ring(s) be held in abey s required if the drawi	yance. See 37 CFF ng(s) is objected to	R 1.85(a). o. See 37 CFR	` '			
Priority ι	ınder 35 U.S.C. §§ 119 and 120								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 									
Attachme n 1) ⊠ Notic	t(s) e of References Cited (PTO-892)		4) Interview	w Summary (PTO-41	3) Paner No(s)				
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PT nation Disclosure Statement(s) (PTO-1449) Pag	O-948) per No(s)	5) Notice of	of Informal Patent App					

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DETAILED ACTION

Response to Arguments

- 1. Applicant's request for reconsideration of the finality of the rejection of the last

 Office action is persuasive and, therefore, the finality of that action is withdrawn.
- 2. Applicant's arguments with respect to claims 4-9, 12-15, 22 and 23 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 4-6, 12, 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Byon (5,847,472) in view of Okada (2002/0091474).

As per claims 4, 12 and 14, Byon teaches:

- a memory device for storing a deployment time of a deployment event (column 7, lines 1-2); and
- a controller electrically coupled to the memory device (figure 1), the controller determining when to deploy a restraint and storing the deployment time (column 6, lines 64-67);
- fault time, start time, duration time and end time (column 6, lines 64-67).

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Byon does not teach a comparator coupled to the controller for comparing the deployment time with the fault a fault time and determining whether the fault time corresponds with the deployment time. However, Okada teaches tracking down the relationship between the operation state of the airbag and the failure of the operation control section of the airbag (paragraph [0006]). Therefore, it would have been obvious to one of ordinary skill in the art to combine the aforementioned inventions in order to track down the cause of the collision with small memory capacity.

As per claim 15, neither of the prior art teaches the memory device that is unearasable, unresettable and unoverwritable. However, it would have been obvious to one of ordinary skill in the art to substitute a storage device for another storage device in order to make sure that the information will not be lost.

As per claim 5, Byon does not teach indicating when a deployment time corresponds with a fault time. However, Okada teaches track down the relationship between the operation state of the airbag and the failure of the operation control section of the airbag (paragraph [0006]). Moreover, Okada teaches the data indication no matter the situation (paragraph [0007]).

As per claim 6, neither Byon nor Okada teaches the indicator disclosed by the applicant. However, Okada teaches the data indication no matter the situation (paragraph [0007]). Therefore, it would have been obvious to one of ordinary skill in the art to substitute any means for another means to perform the same function.

5. Claims 7, 8, 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Byon (5,847,472) in view of Otsu (6,231,075).

As per claims 7 and 8, Byon teaches:

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a memory device for storing a deployment time of a deployment event (column 7, lines 1-2); and

- a controller electrically coupled to the memory device (figure 1), the controller determining when to deploy a restraint and storing the deployment time (column 6, lines 64-67).

Byon does not teach an indicator electrically coupled to the controller, the indicator continuously indicating that the RCM has been on a vehicle that has been involved in a collision, until such time when the RCM is serviced or replaced. However, Otsu teaches a controller continuous monitoring the waveform of the collision signal provided by the collision sensor after the first squib has been initiated (column 5, line 17-31). Further, it would have been obvious to one of ordinary skill in the art that it will keep doing so until is replaced or get some kind of service. Therefore, it would have been obvious to one of ordinary skill in the art to combine the aforementioned inventions in order to provide an automotive airbag inflator for controlling an inflating speed of an airbag according to an intensity of an impact in dependency on collision modes of the vehicle against an obstacle.

As per claim 13, Byon does not teach an indicator electrically coupled to the controller, the indicator continuously indicating that the RCM has been on a vehicle that has been involved in a collision, until such time when the RCM is serviced or replaced. However, Otsu teaches a controller continuous monitoring the waveform of the collision signal provided by the collision sensor after the first squib has been initiated. Further, it would have been obvious to one of ordinary skill in the art that it will keep doing so until is replaced or get some kind of service. Therefore, it would have been obvious to one of

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ordinary skill in the art to combine the aforementioned inventions in order to provide an automotive airbag inflator for controlling an inflating speed of an airbag according to an intensity of an impact in dependency on collision modes of the vehicle against an obstacle.

6. Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Byon (5,847,472).

Byon teaches sensing a collision (column 6, line 42); generating a collision signal in response to the collision (column 6); deploying a restraint in response to the collision (column 7); storing the deployment time (column 6, lines 64-67) and continuously indicating a fault in response to the deployment event (column 7).

Allowable Subject Matter

Claims 9 and 22 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: no prior art teaches storing the restraint power draw value during the deployment event.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Olga Hernandez whose telephone number is (703) 305-0918. The examiner can normally be reached on Monday through Friday from 8:30 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William A. Cuchlinski can be reached on (703) 308-3873. The fax phone

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number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-

1113.

Olga Hernandez Examiner Art Unit 3661